

**What is Claimed is:**

1. A positioning structure for motor's pole, comprising:

a housing, provided with a pivot portion having a periphery provided with multiple wall plates and a pair of insertion seats, each of the two insertion seats having an outer end, and formed with an insertion groove for insertion of a circuit board, the housing provided with multiple combination posts; and

at least one pole, including a magnetically conducting material, and an insulating material, the magnetically conducting material enclosed by the insulating material, and partially exposed outward from the insulating material, the magnetically conducting material having a positioning hole combined on the combination post of the housing, the magnetically conducting material wound with a conducting wire.

2. The positioning structure for motor's pole as claimed in claim 1, wherein the two ends of the wall plates of the housing have the same thickness, the outer ends of the two insertion seats have the same thickness, and the end of the wall plate and the adjacent outer end of the adjacent insertion seat have different thickness.

3. The positioning structure for motor's pole as claimed in claim 1, wherein the pole has two ends, one end is thicker and the other end is thinner, the pole is combined on the combination post of the housing in alternate manner, and the two ends of the pole and the two ends of the wall plate and the outer end of the insertion seat are complimentary with each other.

4. The positioning structure for motor's pole as claimed in claim 1, wherein the insulating material of the pole is formed with an arcuate groove, and the combination post of the housing is formed with an arcuate cutout face which is complimentary with the arcuate groove of the insulating material of the pole.

1           5. The positioning structure for motor's pole as claimed in claim 1,  
2 wherein the insulating material of the pole is provided with a guide post for  
3 guiding the conducting wire, and the guide post is conducted with the  
4 magnetically conducting material.

5           6. The positioning structure for motor's pole as claimed in claim 1,  
6 wherein the positioning hole of the pole receives a mounting ring made of  
7 insulating material.

8           7. A motor's pole structure, comprising: a magnetically conducting  
9 material, and an insulating material, the magnetically conducting material  
10 enclosed by the insulating material, and partially exposed outward from the  
11 insulating material, a single conducting wire continuously wound around even  
12 numbers of magnetically conducting material.

13           8. The motor's pole structure as claimed in claim 7, wherein the poles  
14 are arranged in alternate manner.

15           9. The motor's pole structure as claimed in claim 7, wherein the pole  
16 has two ends having different thickness.